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to construct his catalogue of southern stars (1750), the mural-quadrant of LALANDE (1774-1834),* etc., etc.

It is not the object of this note to do more than to give the briefest description of the observatory at Paris, which has had so brilliant a history. For a fuller account of its work reference is made to the *Astronomie Pratique* of the AUDRÉ and RAYET and to the Annual Reports of the Director, Admiral MOUCHEZ.

E. S. H.

TOTAL SOLAR ECLIPSE OF APRIL, 1893. LICK OBSERVATORY
EXPEDITION TO CHILE.

The line of totality of the solar eclipse of April, 1893, passes across South America from Chile to Brazil and cuts the African coast in Senegambia. It is probable that parties from the United States and from Europe will establish stations on both sides of the Atlantic Ocean in Brazil and in Africa. The Harvard College Observatory has a station in Peru and will probably observe the eclipse somewhere in South America. At the suggestion of Professor SCHAEBERLE plans were made for sending an observer from the Lick Observatory to the west coast of Chile, and the necessary expenses of such an observer have been provided for by the generous gift of a friend of the observatory. The expedition from the Lick Observatory will be entirely photographic and its object will be to secure pictures of the inner and outer corona on the general plan which was so successful at the eclipses of January and of December, 1889.

The instruments to be employed will be, the 6½-inch equatorial, the 5-inch (40 foot focus) photo-heliograph objective, and a DALLMEYER portrait lens. Professor SCHAEBERLE may have the volunteer assistance of Mr. GALE, an amateur of Paddington,
N. S. W. E. S. H.

EXHIBIT OF THE LICK OBSERVATORY AT THE WORLD'S
FAIR IN CHICAGO.

The World's Fair Commission of Santa Clara County, California, has set apart the sum of \$300 to aid the Lick Observatory in preparing an exhibit for the World's Fair in 1893. The observatory proposes to send a large model of the Summit of Mount Hamilton, showing the principal building to scale; as well as to

* See LALANDE'S *Astronomie*, vol. ii.